

Table S3: Genetic analysis of Akt, Tor, Myc, and CyclinD-Cdk4 pathways in neoplastic and normal glia

Functional genotype	Glial neoplasia/phenotypes relative to <i>repo>dEGFR^λ;dp110^{CAAX}</i>
<i>repo>dAkt^{dsRNA}; dEGFR^λ; dp110^{CAAX}</i>	full suppression ^a
<i>dAkt^{04226/+}; repo>dEGFR^λ; dp110^{CAAX}</i>	partial suppression
<i>repo>dFoxO^{wild-type}; dEGFR^λ; dp110^{CAAX}</i>	partial suppression
<i>repo>dFoxO^{SA}; dEGFR^λ; dp110^{CAAX}</i>	partial suppression ^a
<i>repo>dTor^{TED}; dEGFR^λ; dp110^{CAAX}</i>	full suppression ^a
<i>dTor^{2L7/l(2)k17004}; repo>dEGFR^λ; dp110^{CAAX}</i>	partial suppression
<i>dSin1^{e03756/l(2)Bsc11}; repo>dEGFR^λ; dp110^{CAAX}</i>	strong suppression ^a
<i>dRictor^{A2}; repo>dEGFR^λ; dp110^{CAAX}</i>	strong suppression
<i>repo>dRaptor^{dsRNA}; dEGFR^λ; dp110^{CAAX}</i>	strong suppression ^a
<i>repo>dS6K^{dsRNA}; dEGFR^λ; dp110^{CAAX}</i>	strong suppression ^a
<i>repo>deIF4E^{dsRNA}; dEGFR^λ; dp110^{CAAX}</i>	strong suppression ^a
<i>repo>d4EBP; dEGFR^λ; dp110^{CAAX}</i>	strong suppression ^a
<i>repo>dTSC1^{dsRNA}; dEGFR^λ; dp110^{CAAX}</i>	enhancement ^a
<i>repo>dMyc^{dsRNA}; dEGFR^λ; dp110^{CAAX}</i>	strong suppression ^b
<i>dMyc^{P0/+}; repo>dEGFR^λ; dp110^{CAAX}</i>	moderate suppression, sometimes viable ^b
<i>dMyc^{4/+}; repo>dEGFR^λ; dp110^{CAAX}</i>	moderate suppression
<i>repo>dMax^{dsRNA}; dEGFR^λ; dp110^{CAAX}</i>	strong suppression ^b
<i>dCdk4^{3/k06503}; repo>dEGFR^λ; dp110^{CAAX}</i>	strong suppression ^b
<i>repo>dCdk4^{dsRNA}; dEGFR^λ; dp110^{CAAX}</i>	strong suppression
<i>repo>dCyclinD^{dsRNA}; dEGFR^λ; dp110^{CAAX}</i>	partial suppression
<i>repo>Rbf1^{dsRNA}; dEGFR^λ; dp110^{CAAX}</i>	synergistic enhancement ^c
<i>repo>dEGFR^λ; deIF4E</i>	similar to dEGFR ^λ alone
<i>repo>dEGFR^λ; dS6K^{act}</i>	similar to dEGFR ^λ alone
<i>repo>dEGFR^λ; dMyc</i>	neoplastic glia ^c
<i>repo>dEGFR^λ; dCyclinD; dCdk4</i>	weak glial neoplasia ^c
<i>repo>dEGFR^λ; Rbf1^{dsRNA}</i>	glial overproliferation ^c
<i>repo>dAkt^{dsRNA}</i>	reduced glia, small brain, pupal lethal ^d
<i>repo>dFoxO^{wild-type}</i>	early lethal
<i>repo>dTor^{TED}</i>	reduced glia, small brain, lethal ^d
<i>dSin1^{e03756/l(2)Bsc11}</i>	grossly normal glia, viable ^a
<i>repo>dRaptor^{dsRNA}</i>	slight glial hypoplasia ^d
<i>repo>dS6K^{dsRNA}</i>	slight glial hypoplasia ^d
<i>repo>deIF4E^{dsRNA}</i>	slight glial hypoplasia, pupal lethal ^d
<i>repo>dTSC1^{dsRNA}</i>	not neoplastic ^d
<i>repo>Rheb</i>	viable
<i>repo>deIF4E</i>	viable

<i>repo>dS6K</i> ^{act}	not neoplastic
<i>repo>dMyc</i> ^{dsRNA}	reduced glia, small brain, larval lethal
<i>dCdk4</i> ^{3/k06503}	grossly normal glia, viable ^b
<i>repo>dMyc</i>	glial polyploidy, some excess glia, not neoplastic, viable
<i>repo> dCyclinD; dCdk4</i>	slight increase in glia, not neoplastic ^e
<i>repo> RbfI</i> ^{dsRNA}	slight increase in glia, not neoplastic ^e

3rd instar larval brains were examined for all genotypes, except *repo>dFoxO* since overexpression of either dFoxO^{SA} or dFoxO^{wild-type} caused early lethality.

^a representative brain hemisphere shown in Figure 6, see legend for full genotype

^b representative brain hemisphere shown in Figure 7, see legend for full genotype

^c representative brain hemisphere shown in Figure 8, see legend for full genotype

^d representative brain hemisphere shown in Figure S10, see legend for full genotype

^e representative brain hemisphere shown in Figure S4, see legend for full genotype